

Program Description/Textbook or Print Instructional Material

Vendor: Delmar Learning Web Address: www.delmar.com

Title: Introduction to Plant Science

Author: Parker Copyright: 2004

ISBN: 1-4018-4188-0 Course/Content Area: Vocational and Career Education; Agriculture;
Agricultural Education

Intended Grade or Level: 9-12 Readability Level: 9.3 (Flesch Kincaid)

List Price: 69.95 Lowest Wholesale Price: 51.75

All materials bid as of July 1, 2003 must be offered in an alternative format for students who require reading accommodations. A description of the levels of accommodation is included on p. 8-9 of this bid packet. The Kentucky Department of Education must receive a copy of the alternative format if the material is placed on the State Multiple List.

Level of Accommodations (Level One, Two or Three) Level Three

If Level Two or Three, please provide rationale for not meeting Level One Compliance It is not financially feasible for our products to meet Level One at this time.

FEATURES

DISCLAIMER: The features of each book or program were developed by the publisher and do not reflect the opinion of the State Review Team, State Textbook Commission, nor of the Kentucky Department of Education.

Content

- Comprehensive chapters span the basics of plant origins to genetic engineering and provide a well-rounded introduction to plant science and agronomy.
- text is filled with detailed photographs, drawings, graphs and charts to enhance learning and provide critical information in a clear and concise manner
- key words are highlighted throughout text to stimulate learning and expand user vocabulary

Student Experiences

- High school agriscience instructors and post-secondary agricultural educators will find everything they need to teach beginning plant science in this one book.
- This book is appropriate for introductory plant science courses found in horticulture and agriculture programs at the secondary and post-secondary vocational level, as well as some community and technical colleges.
- complete chapter on plant science-related careers provides an excellent resource for users with a potential interest in employment within the plant science industry

Assessment

This new text provides a comprehensive introduction to the fascinating world of plant science. From the basic requirements for plant growth, to genetic engineering and biotechnology, this easy to understand book is ideal for the high school level agriscience curriculum or college freshman level plant science course. Each chapter begins with learning objectives and key words and ends with a cumulative review -- complete with hands-on activities, instructor and student resources and references for further research. Students will learn about the origins of cultivated plants, structure and anatomy, photosynthesis, respiration, propagation, production of major agronomic crops and much, much more.

Organization

- Unlike other resources, this book is specifically designed for instruction and is filled with detailed photos, graphs and charts for easy access to concise information.
- learning objectives are presented at beginning of each chapter and agree with competency-based education philosophy
- thorough end-of-chapter summaries include knowledge application sections with practical activities for knowledge reinforcement, study and review questions for thorough review of presented information, resource sections to stimulate learning, and Internet reference guides to encourage further research

Resource Materials

Gratis Items To Be Provided And Under What Conditions

Instructor's Manual (1-4018-4189-9) Free 1 per teacher

ClassMaster (1-4108-4190-2) Free 1 per teacher

Available Ancillary Materials

RESEARCH DATA AND EVIDENCE OF EFFECTIVENESS

DISCLAIMER: The research data and evidence of effectiveness was provided by the publisher and does not reflect the opinion of the State Review Team, State Textbook Commission, nor the Kentucky Department of Education.

NOTE: Please complete this section by indicating the research data and evidence of effectiveness or give a web site where the information is located. If there is no research data and evidence of effectiveness, please indicate **"not available"** in the space.



Group V - Career/Technical Vocational/Practical Living Education Instructional Materials Evaluation Tool Agriculture/Production



Title: Introduction to Plant Science \$51.75			
Publisher: Delmar			
Item Evaluated: Textbook and CD			
Copyright Date: 2004		Evaluator: DJ Matherly and Pam Zeller	
Content Level:		Date of Evaluation 30 July 03	
Level of Alternative Format	Level 1 – Full Compliance	Level 2 – Provisional Compliance	Level 3 – Marginal Compliance
This section completed by Exceptional Children Services			

Overall Strengths and/or Weaknesses

Disclaimer: Comments on the strengths and/or weaknesses of each book, material or program were written by members of the State Textbook/Instructional Materials Review Team and reflect their opinions . They do not reflect the opinions of the State Textbook Commission nor the Kentucky Department of Education. In addition, the State Textbook/ Instructional Materials Review Team completed each evaluation form during the week of July 28-Aug. 1, 2003. In order to maintain the integrity of the of the review team's comments, editing was limited to spelling and punctuation.

Recommendations:	
<input checked="checked" type="checkbox"/>	Recommended by reviewers to State Textbook Commission
<input type="checkbox"/>	Not recommended by reviewers to State Textbook Commission

Publisher's Explanation of Reviewer's Comments: By action of the State Textbook Commission, publishers are provided limited space, 150 words, to respond to what they may consider factual errors made by the reviewers in the evaluation.



Group V - Career/Technical Vocational/Practical Living Education Instructional Materials Evaluation Tool Agriculture/Production



Title: Introduction to Plant Science		Publisher Delmar
Technology Management Summary Data:	20 possible points	____0____ points earned
Technology Management Comments:		
Technology Presentation/Interface Summary Data:	40 possible points	____0____ points earned
Technology Presentation/Interface Comments:		
Content Summary Data:	52 possible points	____35____ points earned
Content Comments:		
Instruction & Management Summary Data	52 possible points	____51____ points earned
Instruction & Management Comments:		
Organization & Structure Summary Data	36 possible points	____35____ points earned
Organization & Structure Comments:		
Resource Material Summary Data	40 possible points	____40____ points earned
Resource Material Comments:		



Group V - Career /Technical & Vocational/Practical Living **Electronic Instructional Media Review Form** **Stand Alone/Independent or Integrated Software for Agriculture/Production**



Equipment (circle or change fill color)	Grade Level (circle or change fill color)	Audience (circle or change fill color)	Format (circle or change fill color)	Cost _____	
Windows	Primary	Individual	Stand Alone/Independent	_____ single copy	_____ site license
Macintosh	Intermediate	Small Group	Integrated	_____ network version	_____ school version
CD-ROM	Middle	Large Group	Supplemental	_____ lab pack of ____ copies	_____ online
DVD	High		In lieu of basal text		
Sound					
Other					

If other, explain _____

Type of Software: Check all that apply	_____ Simulation	_____ Management	_____ Interdisciplinary	_____ Problem Solving	_____ Tutorial
_____ Exploratory	_____ Creativity	_____ Drill and Practice	_____ Critical Thinking	_____ Utility	_____ Other:

Rating Scale:	3—Some of the time	1—None of the time
4—All or the time	2—Minimally	0— Not applicable

Management	Rating
Allows customizing for individual learning needs.	
Allows students to exit and resume at a later time.	
Keeps a students performance record, where needed.	
Allows control of various aspects of the software (e.g., turning sound off).	
Allows for printed reports.	
Comments:	Total

Presentation/Interface	Rating
Presents material in an organized manner.	
Has consistent, easy-to-use, on-screen instructions.	
Has developmentally correct presentation format.	
Adapts to different learning environments (learning styles/multiple intelligences, etc.)	
Accessible for special needs students.	
Runs smoothly, without long delays.	
Presents easy-to-view text and graphics.	
Presents easy-to-hear and understand sounds.	
Avoids unnecessary screens, sounds, and graphics.	
Provides immediate, appropriate feedback.	
Comments: Unable to read!	Total

Content—Agriculture/Production	Rating
Career Focus/Employability Skills/Workplace Readiness Skills	4
Supervised Agricultural Experience (Work Based Learning)	4
Leadership Development / FFA Student Organization	2
Animal Science	0
Plant & Land Science	4
Agribusiness/Farm Management	2
Sales & Marketing/Planning, Analysis, Strategies, etc.	2
Small Power Equipment/Ag. Power & Machinery	0
Ag. Construction/Ag. Structures & Design	3
Sales & Marketing/Planning, Analysis, Strategies, etc.	2
Technology in Agriculture (Food Animal, Plant, Crop Environmental, Bio-Tech)	4
Emerging Agricultural Technologies (GIS, GPS, Tissue Culture, Cloning, etc.	4
Agriscience Principles	4
Comments:	Total 35

Rating Scale:	2—Minimally
4—All or the time	1—None of the time
3—Some of the time	0— Not applicable

Instruction and Assessment	Rating
Identifies a Sense of Purpose	4
Builds on Student Ideals	4
Engages Students	4
Develops Production Ideas	4
Promotes Student Thinking	4
Assesses Student Progress	4
Enhances The Learning Environment	4
Reading level is appropriate for interest and ability level of intended student group; level remains consistent throughout.	4
Commonwealth Accountability Testing System (CATS) "like" Assessment is provided	4
Variety of Assessments (diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer performance, portfolio prompts) is included.	4
Includes activities and opportunities for integration of technology.	4
Reflects researched-based practices (e.g. hands-on activities, technology, problem-solving situations)	4
Differentiation techniques and activities suggested.	3
Comments:	Total 51

Rating Scale:	3 – Some potential for learning	1 - Not present
4 – High potential for learning	2 – Little potential for learning	0 – Not applicable

Organization and Structure	Rating
Organization is logical and allows for spiraling of content.	4
Vocabulary and key terms are clearly defined and easily accessible within each lesson.	4
Visual illustrations (e.g. graphs, charts, models) and examples are clearly presented and content-related.	4
Illustrations and language reflect diversity (e.g. racial, ethnic, cultural, age, gender, disabilities).	3
Legible type, length of lines, spacing, and page layout and width of margins contribute to overall appearance and use.	4
Student materials seem durable and conducive to daily use.	4
Includes sufficient glossary, index and appendices.	4
Employs accurate grammar and spelling	4
Organization of material can be effectively used with Standards Based Units, Core Content and Program of Studies.	4
Comments:	Total 35

Resource Materials	Rating
Teacher materials coordinate easily with student materials (e.g. additional resources included at point of need, student pages shown, integration of technology indicated)	4
Activities are included that adapt to the various learning styles, intelligences, and interest/ability levels.	4
Extension activities including adaptations and accommodations for students with special needs.	4
Resources provide objectives, background information, common student errors, hints, advice for lesson implementation and real-world connections, connections with career and/technology and references (e.g. solution manuals, study guides)	4
Suggestions are made for integration of themes and /or interdisciplinary instruction.	4
Integration opportunities suggested and examples given.	4
Teacher resources are available online.	4
Online resources available – Repeat of information in text.	4
Online resources available – Practice skills only.	4
Online resources available – New application materials.	4
Comments:	Total40

Rating Scale:	2—Minimally
4—All or the time	1—None of the time
3—Some of the time	0— Not applicable